

## AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0048] with the amended paragraph [0048] below:

[0048] Assuming two available slave threads, the content-based partition logic 102 groups the eight chunks into two groups, one for each slave thread. As described above, a heuristic search algorithm may be used to group the eight chunks into two groups, wherein each group contains about the same number of transactions. The two resulting groups may include the first group of chunks {111, 110, 101, 011} and the second group of chunks ~~{100, 101, 001, 000}~~ **100, 010, 001, 000**, wherein each group contains forty (40) transactions. FIG. 5 depicts the partitioned sub-branches and grouping result. The two sub-branches circled with dashed lines represent a first group of chunks assigned to the first thread. The two other sub-branches circled with solid lines represent the second group of chunks assigned to the second thread.